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6/13/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of: Dresch et. al
Serial No.: 09/808,468
Art Unit: 2881
Examiner: K. T. Nyguen
Filing Date: March 14, 2001
For: Ion Storage Time-Of-Flight
Mass Spectrometer
Attorney Docket No. 840.066.202

June 5, 2003

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TECHNOLOGY CENTER 2800

VIA FAX (703) 872-9318Assistant Commissioner for Patents
Washington, D.C. 20231**RESPONSE**

Sir:

In response to the telephonic request made by Andrea Johnson of the Patent Office, we are providing by this response, the amended version of claim 11 as it appeared in our Amendment of May 22, 2003, and are providing a clean version on page 2 of this response.

11. (Amended) An apparatus for analyzing chemical species comprising:
a time-of-flight mass analyzer with an ion pulsing region and a detector,
an ion source for producing ions from said chemical species,
a two-dimensional multipole ion guide having an entrance end where ions enter
said ion guide from said ion source and an exit end where ions exit said ion guide,
said two-dimensional multipole ion guide functioning as a two-dimensional ion trap,

wherein said two-dimensional multipole ion guide comprises a plurality of spaced apart rods parallel to each other and extending from said entrance end to said exit end.

→ means for pulsing said ions transferred into said pulsing region into said time-of-flight mass analyzer for mass analysis,

and means for detecting said mass analyzed ions.

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a time-of-flight mass analyzer with an ion pulsing region and a detector,
an ion source for producing ions from said chemical species,
a two-dimensional multipole ion guide having an entrance end where ions enter
said ion guide from said ion source and an exit end where ions exit said ion guide,
said two-dimensional multipole ion guide functioning as a two-dimensional ion
trap,
wherein said two-dimensional multipole ion guide comprises a plurality of spaced
apart rods parallel to each other and extending from said entrance end to said exit end,
means for pulsing said ions transferred into said pulsing region into said time-of-
flight mass analyzer for mass analysis,
and means for detecting said mass analyzed ions.